Owner's Guide

CASCADE®
2615 Cart and 3175 Wall Mount

a-dec®

85.0664.00

Warranty Information

Serial Number _____

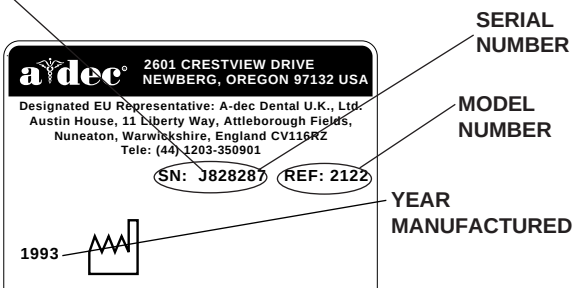
Model Number _____

Date Purchased _____

Date of Service	Model/Description of Service	Technician's Initials

ALPHABETICAL EQUIVALENT TO THE NUMERAL OF THE MONTH MANUFACTURED

A	January
B	February
C	March
D	April
E	May
F	June
G	July
H	August
I	September
J	October
K	November
L	December



SERIAL NUMBER IDENTIFICATION

Serial Number Location:

- Located on the underside of the assistant's work surface.

For service information contact your local authorized A-dec dealer.

Check with local codes and A.D.A. (Americans with Disabilities Act) Requirements for Installation of this product.

A-dec warrants its products against defects in material or workmanship for one year from time of delivery (except for handpieces which have a warranty period of six months). A-dec's sole obligation under the warranty is to provide parts for the repair, or at its option, to provide the replacement product (excluding labor). The buyer shall have no other remedy. (All special, incidental, and coincidental damages are excluded.) Written notice of breach of warranty must be given to A-dec within the warranty period. The warranty does not cover damage resulting from improper installation or maintenance, accident or misuse. The warranty does not cover damage resulting from the use of cleaning, disinfecting or sterilization chemicals and processes. The warranty also does not cover light bulbs. Failure to follow instructions provided in A-dec's Operation and Maintenance Instructions (Owner's Guide) may void the warranty.

NO OTHER WARRANTIES AS TO
MERCHANTABILITY OR OTHERWISE ARE MADE

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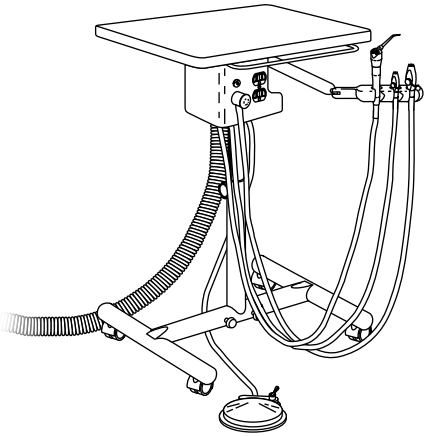
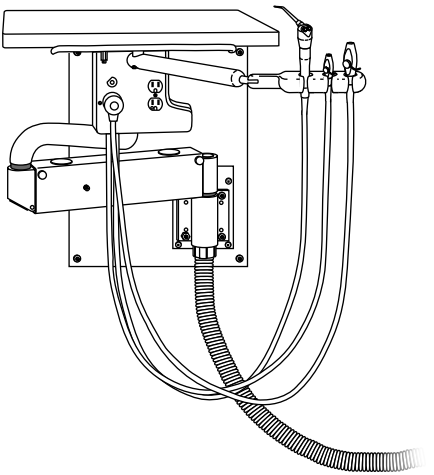


Cascade 2615 Assistant's Cart



Cascade 3175 Assistant's Wall Mount

Serial Number Location, Service Information, and Warranty Information are located on the inside front cover and front page.

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OPERATION

About Your Assistant's Unit

Your Cascade 2615 Assistant's Cart or Cascade 3175 Assistant's Wall Mount is equipped with the following instrumentation: autoclavable syringe, autoclavable saliva ejector, and autoclavable HVE *(two HVEs optional)*. The unit's post box contains a solids collector, a water quick disconnect (QD), and a power supply duplex *(see Figure 1)*. An optional tray holder is easily fitted for right-hand or left-hand usage *(refer to page 5)*.

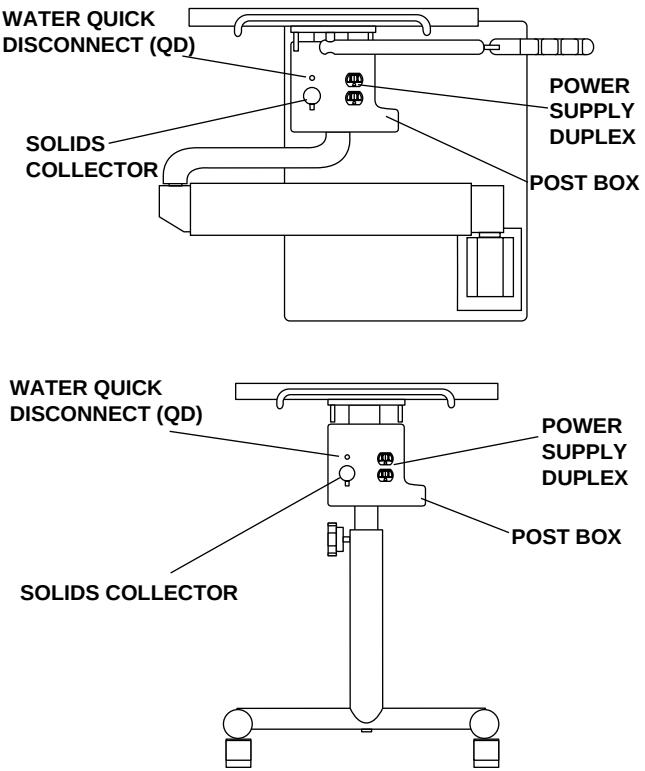

Figure 1. Cart & Wall Mount Post Box

Assistant's Instrumentation

Autoclavable HVE & Autoclavable Saliva Ejector

To operate the autoclavable HVE and saliva ejector, simply turn the control valve.

The autoclavable HVE and saliva ejector can be easily converted for right- or left-hand operation. To convert, press the control valve out of the valve body *(see Figure 3)*. Rotate the control valve 180°, then press it back into the valve body.

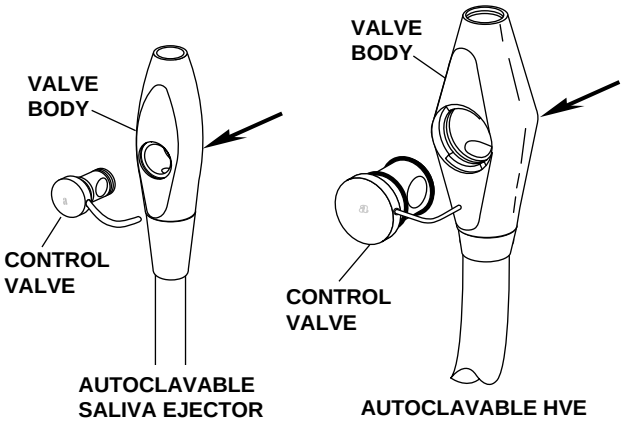

Figure 2. Right- to Left-Hand Conversion

Refer to your ***Assistant's Instrumentation Owner's Guide*** *(A-dec Publication No. 85.2610.00)* for complete instructions on cleaning your HVE and saliva ejector.

Solids Collector

The solids collector *(see Figure 3)* prevents solids from entering the central vacuum system.

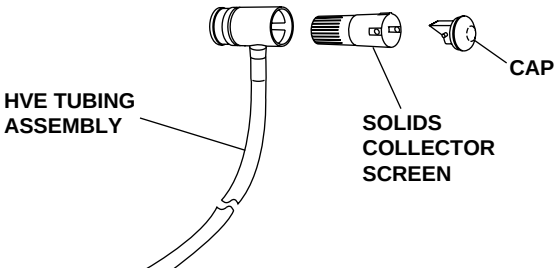

Figure 3. Solids Collector

Refer to your ***Assistant's Instrumentation Owner's Guide*** *(A-dec Publication No. 85.2610.00)* for complete solids collector maintenance instructions.

Autoclavable Syringe

To operate the syringe *(see Figure 4)*:

- Move the on/off toggle to the ON position.
- Air — Press the right button down.
- Water – Press the left button down.
- Spray – Press both buttons down.

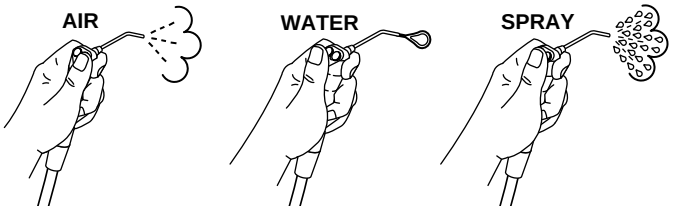

Figure 4. Autoclavable Syringe

Refer to your ***Autoclavable Syringe Owner's Guide*** *(A-dec Publication No. 85.0680.00)* for complete syringe operation and maintenance instructions.

Tray Holder (Optional)

Left/Right Conversion

The optional tray holder can be easily mounted on either side of the unit's work surface *(see Figure 5)*.

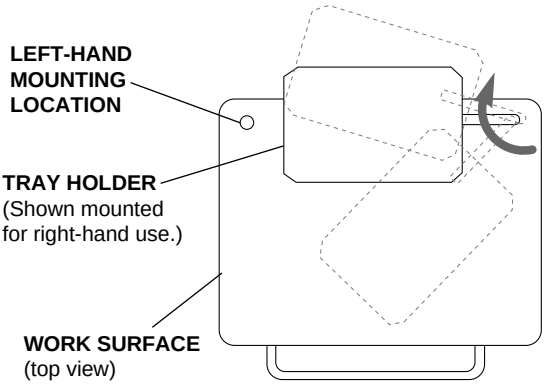

Figure 5. Tray Holder Left/Right Conversion

1. Remove the plug from the work surface corner opposite the current tray holder location.
2. Remove the tray holder from the unit's work surface and set aside.
3. Remove the brass tray holder bushing from the work surface by removing the 9⁄16" hex nut (located on the underside of the unit's work surface) that secures the bushing to the work surface.
4. Lift the brass bushing from its seat and move it to the opposite side of the unit work surface.
5. Install the 9⁄16" hex nut to the new position and tighten the hex nut.
6. Install the tray holder into the brass bushing.
7. Place the plug into the open tray holder hole.

System Air and Water Pressure

For system air and water pressure adjustments, refer to your ***Floor Boxes Owner's Guide*** *(A-dec Publication No. 85.2611.00)*.

Care Instructions

For recommended asepsis instructions, refer to your ***Equipment Asepsis Owner's Guide*** *(A-dec Publication No. 85.0696.00)* .

For recommended self-contained water system care, refer to ***A-dec Self-contained Water System Owner's Guide*** *(A-dec Publication No. 85.0675.00)*.

Wall Mount Adjustments

Leveling

Your wall-mounted unit is leveled during installation and should not require adjustment. However, if the unit needs to be leveled, the following procedures will help you.

Leveling Front-To-Back:
Two leveling setscrews are supplied with the unit. These will be either in the top or bottom leveling screw holes *(see Figure 6)*.

If the unit tilts forward from the wall (see Figure 6A),

1. Place a leveling device on the work surface.
2. Loosen the bottom two mounting screws.
3. Install the leveling setscrews in the bottom two holes, then tighten them until the unit is level.
4. Retighten the mounting screws.

If the unit tilts toward the wall (see Figure 6B):

1. Place a leveling device on the work surface.
2. Loosen the top two mounting screws.
3. Place the leveling setscrews in the top two holes, then tighten until the unit is level.
4. Retighten the mounting screws.

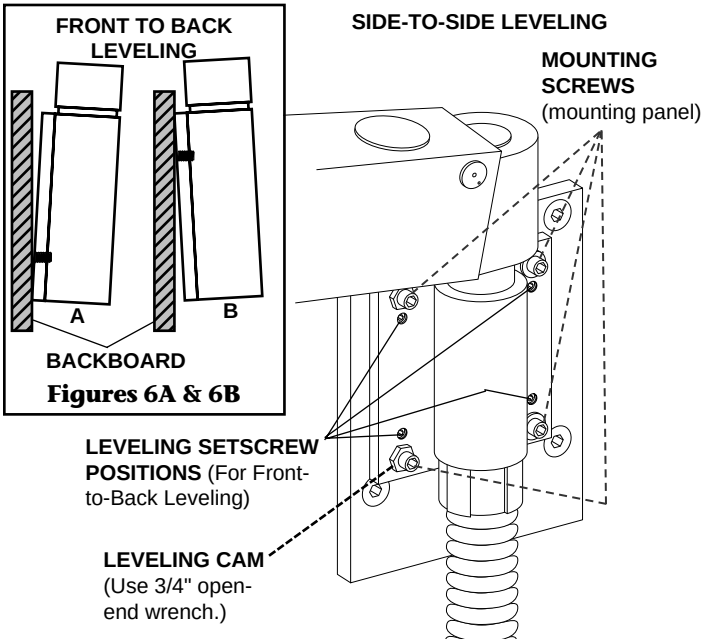

Figure 6. Leveling the Wall Mount

Leveling Side-To-Side:

1. Loosen the four hex screws in the mounting panel, about 1/4 of a turn.
2. Place a leveling device on the work surface.
3. Using a 3⁄4" open-end wrench, gently turn the leveling cam *(see Figure 6)* until the unit is level.
4. Retighten the mounting screws.

Arm Spring Tension

When you move the unit, it should stay where you place it. If the unit tends to drift up or down, the tension of the arm's internal spring needs to be adjusted.

NOTE
The spring tension should be adjusted with a "normal" load on the work surface. The brake on/off toggle should be in the OFF position.

1. Locate the adjustment screw under the arm *(see Figure 7)*.

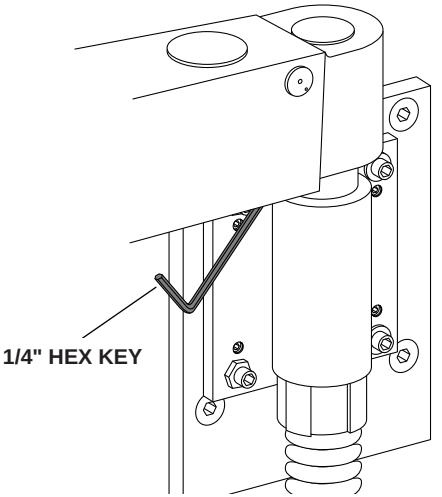

Figure 7. Arm Spring Tension Adjustment

2. Use a 1/4" hex key to make the adjustment.
   - If the unit drifts down, turn the screw clockwise to increase spring tension.
   - If the unit drifts up, turn the screw counterclockwise to decrease spring tension.

Arm Brake Adjustment

NOTE

Adjust arm spring tension prior to arm brake adjustment *(refer to page 8)*. Retest the brake after spring adjustment.

The air-actuated arm brake on your wall-mounted unit has been set at the factory and should not need further adjustment. If the brake does not hold, first check to be sure that the brake on/off toggle is in the ON position, and that there is air (at least 60 psi) to the unit.

Refer to your ***Floor Box Owner's Guide*** *(A-dec Publication No. 85.2611.00)* for complete air pressure adjustment procedures.

If the brake will not hold, the brake may be too loose. A brake which is too tight will cause a screeching or scraping noise as you move the unit up or down when the brake is not on.

To adjust the brake:

1. Move the brake on/off toggle to the OFF position.
2. Remove the plug from the access hole on the left side of the arm *(see Figure 8)*.

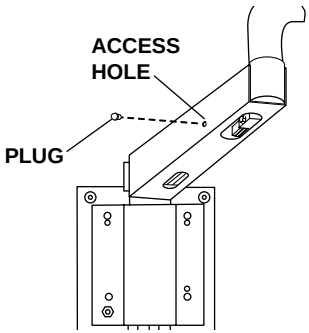

Figure 8. Arm Brake

(Continued on page 10.)

Arm Brake Adjustment (continued)

3. Push down on the arm until the inner hole lines up with the outer hole, then insert a 5/32" hex key.

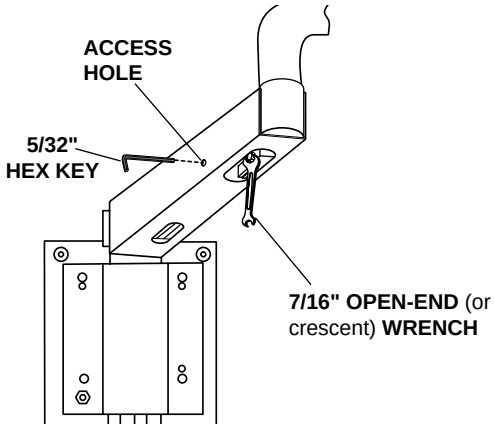

Figure 9. Arm Brake Adjustment

NOTE

Adjust the nut in small increments and retest the brake. Overtightening or overloosening the adjustment nut may damage the brake.

4. Locate the adjustment nut under the arm *(see Figure 9)*.
   - *To tighten the brake,* use a 7/16" open-end wrench to hold the adjustment nut while you turn the hex key clockwise
   - *To loosen the brake,* use a 7/16" open-end wrench to hold the adjustment nut while you turn the hex key counterclockwise.

Cart Adjustments

Work Surface Height

WARNING

The cart is very heavy. Cart height adjustment requires two people to safely complete. Firmly tighten the knob after adjusting the cart height, serious bodily injury may result if the knob is not secure.

1. Securely hold the cart top so it will not drop, loosen the knob.

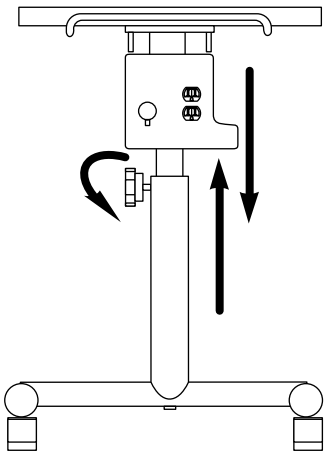

Figure 10. Cart Height Adjustment

2. Lift or lower the cart top until the work surface is at the desired height.
3. Firmly tighten the knob. If the top lowers, the knob was not tightened enough.

Wall Mount & Cart Adjustments

Left/Right Conversion

Your assistant's cart or wall mount can be easily converted for opposite-hand delivery.

Simply rotate the assistant's arm to the opposite side of the work surface *(see Figure 11)*.

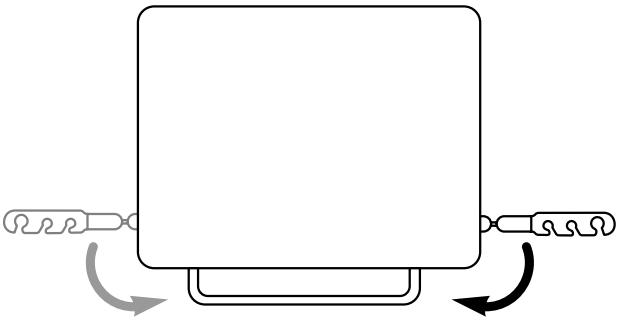

Figure 11. Left/Right Conversion

Work Surface Leveling

To level your assistant's unit work surface:

1. Place a leveling device on the work surface.
2. Check for level front-to-back and side-to-side.
3. Locate the four mounting screws found in the leveling plate on the underside of the work surface *(see Figure 12)*. Using a 3⁄16" hex key, loosen but do not remove these screws.

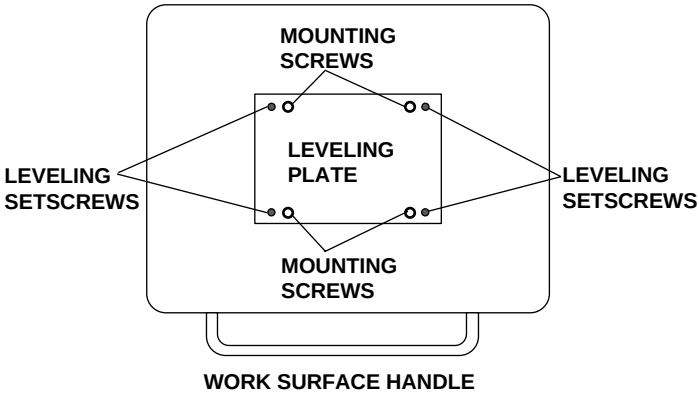

Figure 12. Leveling the Work Surface
(Viewed from the bottom of the work surface and shown without assistant's arm or post box.)

4. Locate the four leveling setscrews *(there is one in each corner of the leveling plate underneath the unit work surface)*.

   Front-to Back Leveling:
   Face the work surface handle.

   If the work surface tilts toward you, use a 3⁄16" hex key and tighten the two leveling setscrews closest to you until the work surface is level.

   If the work surface tilts away from you, tighten the two leveling setscrews furthest away until the work surface is level.

   Side-to-Side Leveling:
   Face the work surface handle.

   If the work surface tilts to the left, tighten the two leveling setscrews on the left side of the leveling plate until the work surface is level.

   If the work surface tilts to the right, tighten the two leveling setscrews on the right side of the leveling plate until the work surface is level.

5. When you have completed these steps tighten the four mounting screws, then check the work surface again for level.

Maintenance

Solids Collector .....page 4

Also refer to the following documentation for more maintenance information:

Assistant's Instrumentation
Assistant's Instrumentation Owner's Guide *85.2610.00*

Autoclavable Syringe Owner's Guide *85.0680.00*

Care Instructions
Equipment Asepsis Owner's Guide *85.0696.00*

Self-contained Water Owner's Guide *85.0675.00*

Power Supplies
Floor Boxes Owner's Guide *85.2611.00*

Adjustments and Specifications

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Cart Adjustments:
Work Surface Height .....page 11
Wall Mount & Cart Adjustments:
Tray Holder *(optional)*
Left/Right Conversion.....page 5
Left/Right Conversion .....page 12
Work Surface Leveling .....page 12

Adjustments and Specifications (continued)

Service Requirements for Unit Operation:

Minimum Air:
2.50 cfm (70.80 l/min) at 80 psi (551 kPa)

Minimum Water:
1.50 gpm (5.68 l/min) at 40 psi (276 kPa)

Minimum Vacuum:
12 cfm (339.84 l/min)
at 8 inches of mercury (27 kPa)

Cart Specifications:

25 lb (11.34 kg) vertical load is the maximum safe load capability of the work surface.

5 lb (2.27 kg) vertical load is the maximum safe load capability of the optional tray holder.

Wall Mount Specifications:

40 lb (18.14 kg) vertical load on work surface will be supported by the arm brake.

100 lb (45.36 kg) maximum unit weight.

200 ft-lb (270 N·m) maximum moment created at the wall by the freestanding unit.

5 lb (2.27 kg) vertical load is the maximum safe load capability of the optional tray holder.

Any optional non-A-dec attachments and/or accessories must comply with EN 60601-1 and EN 60601-1-2.

Also refer to the following documentation for more adjustment and specification information:

System Air and Water Pressure Adjustments
Floor Box
Owner's Guide *85.2611.00*

Specifications are subject to change without notice.

Identification of Symbols

Recognized by Underwriters Laboratories Inc. ® with respect to electric shock, fire and mechanical hazards only in accordance with UL 2601-1. Recognized with respect to electric shock, fire, mechanical and other specified hazards only in accordance with CAN/CSA C22.2, No. 601.1.

UL listed to US (UL 544) and Canadian (CAN/CSA C22.2, No. 125) safety standards.

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Conforms to European Directives *(refer to Declaration Statement)*

Protective earth (ground).

Functional earth (ground).

Attention, consult accompanying documents.

TYPE B APPLIED PART.

CLASS II EQUIPMENT.

Classification of Equipment (EN 60601-1)

Type of shock protection:
CLASS I EQUIPMENT
(Dental Chairs, Dental Lights, & Power Supplies)
CLASS II EQUIPMENT
(Chair, Wall, & Cart Mounted Delivery Systems)

Degree of shock protection:
TYPE B APPLIED PART (All products)

Degree of protection against water ingress:
ORDINARY EQUIPMENT (All products)

Mode of operation
CONTINUOUS OPERATION
(All models except Dental Chairs)

Mode of operation
CONTINUOUS OPERATION
WITH INTERMITTENT LOADING (Dental Chairs)

a-dec®

2601 Crestview Drive
Newberg, Oregon 97132 U.S.A.
Telephone 1-800-547-1883
(503) 538-7478
Fax (503) 538-0276

a-dec
international, inc.

Designated Representative's Address:
A-dec Dental U.K., Ltd.
Austin House
11 Liberty Way
Attleborough Fields
Nuneaton, Warwickshire
England. CV11 6RZ
Telephone: 0800 233285 (within UK)
00 44 24 7635 0901 (outside UK)
Fax: 00 44 24 7634 5106

Designated Representative's Address:
A-dec Australia
41-43 Bowden Street
Alexandria, N.S.W. 2015, Australia
Telephone: (61) 1.800.225010

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